

Amendment to the Abstract:

The Abstract has been amended. A revised Abstract is attached.

ABSTRACT

For example, because ~~an~~An optical position detector for positioning a head for a high-density floppy disk is constituted so that ~~two~~ openings ~~111 and 112~~ are used in which ~~the one opening passes a returning optical beam and one opening passes an advancing optical path beam.~~ The thickness of ~~at~~the opening for passing the returning optical path bound for photodetectors ~~108R and 108L~~ from a disk ~~107~~ is larger than the thickness of ~~an~~the opening for passing the advancing optical path ~~beam~~ bound for the disk ~~107~~ from a light source ~~101~~. A light beam is not easily interrupted in the middle of an optical path even if a light beam falls due to a tilt of the disk and therefore, it is possible to stably obtain position detection signals. Moreover, by reducing the luminous energy to be returned to a light source, it is possible to obtain a signal having less noises even if the distance between object images decreases and downsize an apparatus.

~~In the case of a conventional optical position detector for positioning a head for a high-density floppy disk, a light beam is tilted due to a tilt of a disk and interrupted in its returning path because the numerical aperture of an optical system is small and the quality of a signal used for position detection is easily deteriorated. Moreover, when decreasing the distance between object images in order to downsize an apparatus, noises of a light source increase and the quality of a signal is deteriorated.~~

Attachment